

AMENDMENT TO THE CLAIMS:

Cancel claims 1-23, 25, 26, 29, 30, 34-37, 39, 40, 43, 44.

5 24. (amended) An electrochemical cell, comprising:
a positive electrode folded in a zigzag configuration
having folds and creases; and

at least one bifold negative electrode having a first
leg and a second leg, said first leg and said second leg
10 disposed within a first and a second fold on the same side
of the zigzag configuration of said electrode,
wherein said positive electrode comprises a nickel
hydroxide material and/or said at least one negative
electrode comprises a hydrogen storage alloy.

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27. (amended) The electrochemical cell of claim 24,
wherein said positive electrode comprises a nickel
hydroxide material.

20 28. (amended) The electrochemical cell of claim 24,
wherein said at least one negative electrode comprises a
hydrogen storage alloy.

25 31. (amended) The electrochemical cell of claim 24,
wherein said first leg and said second leg are disposed in
adjacent folds on the same side of the zigzag configuration
of said positive electrode.

30 32. (amended) The electrochemical cell of claim 24,
wherein said at least one bifold negative electrode is a
plurality of bifold negative electrodes, each of said

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bifold negative electrodes having a first leg and a second leg.

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33. (amended) The electrochemical cell of claim 32,
5 wherein said plurality of bifold negative electrodes are disposed over alternating creases on each side of the zigzag configuration of said positive electrode.

38. (amended) An electrochemical cell, comprising:

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10 an electrode stack including a positive electrode disposed between a first and a second negative electrode, said electrode stack folded in a zigzag configuration with folds and creases; and

an electrolyte,

15 wherein said positive electrode comprises a nickel hydroxide material and/or said negative electrodes comprise a hydrogen storage alloy.

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20 41. (amended) The electrochemical cell of claim 38, wherein said positive electrode comprises a nickel hydroxide material.

42. (amended) The electrochemical cell of claim 38, wherein said negative electrodes comprise a hydrogen

25 storage alloy.

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45. (amended) The electrochemical cell of claim 38, further comprising a hydrophobic material disposed in at least one of the folds of the zigzag configuration of said
30 electrode stack.

46. (amended) The electrochemical cell of claim 38,
wherein said electrode stack further comprises a first and
a second hydrophobic layer, each of said hydrophobic layers
disposed on an outer face of a corresponding negative
5 electrode, said electrode stack folded to form said zigzag
configuration.

(Add new claims 47-57.)

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47. (new) An electrochemical cell, comprising:
a negative electrode folded in a zigzag configuration
having folds and creases; and

at least one bifold positive electrode having a first
15 leg and a second leg, said first leg and said second leg
disposed within a first and a second fold on the same side
of the zigzag configuration of said electrode,
wherein said at least one positive electrode comprises a
nickel hydroxide material and/or said negative electrode
20 comprises a hydrogen storage alloy.

48. (new) The electrochemical cell of claim 47, wherein
said at least one positive electrode comprises a nickel
hydroxide material.

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49. (new) The electrochemical cell of claim 47, wherein
said negative electrode comprises a hydrogen storage alloy.

50. (new) The electrochemical cell of claim 47, wherein
30 said first leg and said second leg are disposed in adjacent
folds on the same side of the zigzag configuration of said
negative electrode.

51. (new) The electrochemical cell of claim 47, wherein
said at least one bifold positive electrode is a plurality
of bifold positive electrodes, each of said bifold positive
5 electrodes having a first leg and a second leg.

52. (new) The electrochemical cell of claim 51, wherein
said plurality of bifold positive electrodes are disposed
over alternating creases on each side of the zigzag
10 configuration of said negative electrode.

53. (new) An electrochemical cell, comprising:
an electrode stack including a negative electrode
disposed between a first and a second positive electrode,
15 said electrode stack folded in a zigzag configuration with
folds and creases; and
an electrolyte,
wherein said positive electrodes comprise a nickel
hydroxide material and/or said negative electrode comprises
20 a hydrogen storage alloy.

54. (new) The electrochemical cell of claim 53, wherein
said positive electrodes comprise a nickel hydroxide
material.
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55. (new) The electrochemical cell of claim 53, wherein
said negative electrode comprises a hydrogen storage alloy.

56. (new) The electrochemical cell of claim 53, further
30 comprising a hydrophobic material disposed in at least one
of the folds of the zigzag configuration of said electrode
stack.